

FIXED INDUSTRIAL DEMAND AT JORDAN

Year: 2020 - Middle Palestinian Growth Scenario

Scenario PLAUSIBLE+: Plausible+ Links and Recycling

Quota File: qta.inc 6 files Jordan Valley AGR

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OPTIMAL GAMS RESULTS FOR WAS.GMS
 PRICES

ISRAEL

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Hacola	0.400	0.280	0.70	0.70	0.28
Kinneret	0.400	0.280	0.70	0.70	0.28
WestGalil	0.425	0.298	0.73	0.73	0.30
Haifa	0.445	0.312	0.52	0.52	0.28
Afula	0.480	0.336	0.78	0.78	0.34
Hadera	0.495	0.347	0.80	0.80	0.35
Netanya	0.490	0.343	0.53	0.53	0.29
PTiqwa	0.537	0.376	0.84	0.84	0.38
TelAviv	0.548	0.070	0.85	0.85	0.08
Ramla	0.528	0.370	0.83	0.83	0.37
Rehovot	0.510	0.357	0.81	0.81	0.36
Lachish	0.800	0.118	1.06	1.06	0.13
Negev	0.838	0.141	1.07	1.07	0.16

JORDAN

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
JordanV	0.480	0.009	0.78	0.00	0.01
NHighland	0.473	0.473	0.53	0.00	0.47
Amman	0.631	0.475	0.68	0.00	0.51
DeadSea	0.614	0.614	0.91	0.00	0.61
Azraq	0.493	0.493	0.79	0.00	0.49
WadiAraba	0.800	0.800	1.10	0.00	0.80
MaanDisi	0.693	0.693	0.99	0.00	0.69
Hammad	0.132	0.132	0.43	0.00	0.13

PALESTINE

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Jenin	0.506	0.506	0.81	0.81	0.51
Tulkarem	0.507	0.507	0.81	0.81	0.51
Nablus	0.546	0.106	0.84	0.84	0.15

W2

Ramallah	0.548	0.106	0.84	0.84	0.15
Bethlehem	0.752	0.106	1.05	1.05	0.17
Hebron	0.851	0.106	1.15	1.15	0.18
GazaN	0.800	0.163	1.06	1.06	0.24
GazaS	0.800	0.142	1.07	1.07	0.22
Jericho	0.304	0.111	0.60	0.60	0.13

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GOLAN

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DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Golan	0.376	0.376	0.68	0.68	0.38

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JERUSALEM

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DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Jerusalem	0.546	0.100	0.85	0.85	0.14

Net Price of water in dispute in the Sea of Galilee is 0.400
Average Net Price of water in dispute in the mountain aquifer is 0.328

Water Allocation System (WAS v1.0)
 Developed by: The Harvard Middle East Water Project

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OPTIMAL GAMS RESULTS FOR WAS.GMS
 QUANTITIES

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ISRAEL

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DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
Hacola	80.00	-16.65	14.03	1.65	80.97
Kinneret	597.64	526.03	14.07	0.83	56.71
WestGalil	150.00	39.42	64.90	2.51	43.18
Haifa	183.00	24.20	57.03	4.24	137.97
Afula	40.00	-70.06	84.87	15.09	10.10
Hadera	7.00	-101.27	36.23	8.20	63.84
Netanya	222.00	136.16	47.08	2.07	69.13
PTiqwa	40.00	-70.02	68.10	1.22	40.69
TelAviv	8.00	-197.51	198.92	5.70	10.66
Ramla	124.89	70.63	22.47	3.01	28.78
Rehovot	243.00	138.73	54.79	4.50	44.98
Lachish	96.99	36.20	41.43	2.32	157.13
Negev	44.85	-61.60	58.18	25.00	196.14
TOTAL	1837.37	454.26	762.09	76.35	940.28

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JORDAN

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DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
JordanV	136.00	-263.87	19.64	0.00	477.10
NHighland	225.00	50.99	71.90	0.50	149.39
Amman	149.50	-218.19	299.37	34.00	157.47
DeadSea	279.00	158.96	29.40	86.33	4.31
Azraq	47.00	44.16	2.84	0.00	0.00
WadiAraba	137.73	0.00	16.11	0.60	121.02
MaanDisi	124.00	0.00	4.30	21.10	98.60
Hammad	0.50	0.00	0.50	0.00	0.00
TOTAL	1098.73	-227.95	444.06	142.53	1007.90

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PALESTINE

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DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
Jenin	65.40	-81.26	70.65	1.07	74.94
Tulkarem	37.33	-58.60	72.46	3.60	19.86
Nablus	39.97	-51.01	81.98	4.05	47.97
Ramallah	31.37	-55.18	81.54	2.77	21.69
Bethlehem	53.67	1.34	47.24	2.99	20.29
Hebron	62.20	-37.55	86.60	7.16	58.05
GazaN	210.69	61.60	140.28	4.47	34.00
GazaS	138.64	0.00	129.29	4.46	41.07
Jericho	61.14	41.85	9.86	0.62	83.54
TOTAL	700.41	-178.80	719.90	31.20	401.41

GOLAN

DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
Golan	40.00	11.09	4.95	0.24	23.73

JERUSALEM

DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
Jerusalem	50.00	-58.59	105.16	0.39	30.42

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OPTIMAL GAMS RESULTS FOR WAS.GMS
 RECYCLED QUANTITIES

ISRAEL

DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Hacola	0.00	0.00	0.00	0.00	0.00
Kinneret	0.00	0.00	0.00	0.00	0.00
WestGalil	0.00	0.00	0.00	0.00	0.00
Haifa	37.64	2.80	0.00	40.44	0.00
Afula	0.00	0.00	0.00	0.00	0.00
Hadera	0.00	0.00	0.00	0.00	0.00
Netanya	31.07	1.37	0.00	32.44	0.00
PTiqwa	0.00	0.00	0.00	0.00	0.00
TelAviv	120.98	0.00	0.00	9.77	111.22
Ramla	0.00	0.00	0.00	0.00	0.00
Rehovot	0.00	0.00	0.00	0.00	0.00
Lachish	27.34	1.53	0.00	140.09	-111.22
Negev	38.40	16.50	0.00	172.88	-117.98
TOTAL	255.44	22.20	0.00	395.61	-117.98

JORDAN

DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
JordanV	0.00	0.00	0.00	96.87	-96.87
NHighland	47.46	0.33	0.00	47.79	0.00
Amman	197.58	22.44	0.00	123.15	96.87
DeadSea	0.00	0.00	0.00	0.00	0.00
Azraq	0.00	0.00	0.00	0.00	0.00
WadiAraba	0.00	0.00	0.00	0.00	0.00
MaanDisi	0.00	0.00	0.00	0.00	0.00
Hammad	0.00	0.00	0.00	0.00	0.00
TOTAL	245.04	22.77	0.00	267.81	0.00

PALESTINE

DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Jenin	0.00	0.00	0.00	0.00	0.00
Tulkarem	0.00	0.00	0.00	0.00	0.00
Nablus	54.11	2.67	0.00	43.03	13.76
Ramallah	53.82	1.83	0.00	19.45	36.19
Bethlehem	31.18	1.98	0.00	18.19	14.96
Hebron	57.16	4.73	0.00	52.07	9.82
GazaN	92.58	2.95	0.00	29.66	65.88
GazaS	85.33	2.94	0.00	36.17	52.10
Jericho	0.00	0.00	0.00	74.73	-74.73
TOTAL	374.18	17.10	0.00	273.30	117.98

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GOLAN

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DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Golan	0.00	0.00	0.00	0.00	0.00

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JERUSALEM

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DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Jerusalem	27.38	0.00	0.00	27.38	0.00

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"Optimal" Scenario

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OPTIMAL GAMS RESULTS FOR WAS.GMS
 SOCIAL WELFARE RESULTS

ISRAEL

DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Hacola	16.000	9.716	76.340	92.340
Kinneret	224.000	6.806	57.306	281.306
WestGalil	29.425	5.505	100.786	130.211
Haifa	22.936	11.881	171.820	194.756
Afula	12.456	1.454	111.802	124.258
Hadera	2.304	9.482	96.297	98.601
Netanya	73.818	4.634	107.154	180.972
PTiqwa	13.432	6.553	100.903	114.335
TelAviv	1.183	0.029	208.091	209.275
Ramla	40.864	4.560	48.783	89.647
Rehovot	49.688	6.887	95.302	144.991
Lachish	31.393	0.979	129.811	161.204
Negev	19.503	1.559	203.436	222.939
TOTAL	537.003	70.046	1507.830	2044.833

JORDAN

DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
JordanV	47.328	142.724	154.202	201.530
NHighland	48.975	0.237	272.450	321.425
Amman	64.225	21.454	510.865	575.090
DeadSea	62.229	53.007	43.941	106.170
Azraq	22.351	0.000	2.820	25.171
WadiAraba	13.132	0.480	191.261	204.392
MaanDisi	71.114	14.614	147.278	218.392
Hammad	0.000	0.000	0.511	0.511
TOTAL	329.354	232.515	1323.327	1652.681

PALESTINE

DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Jenin	13.062	0.000	172.609	185.671
Tulkarem	10.682	0.000	103.280	113.962
Nablus	12.231	0.000	123.833	136.064
Ramallah	9.207	0.000	100.982	110.189
Bethlehem	22.361	0.000	64.309	86.670
Hebron	32.924	0.000	133.880	166.803
GazaN	23.400	0.000	169.294	192.694
GazaS	16.900	0.000	163.030	179.930
Jericho	9.220	0.000	79.806	89.026
TOTAL	149.988	0.000	1111.023	1261.011

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GOLAN

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DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Golan	7.040	0.000	35.191	42.231

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JERUSALEM

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DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Jerusalem	7.280	0.000	127.438	134.718

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OPTIMAL GAMS RESULTS FOR WAS.GMS
 TRANSPORT OF FRESH WATER

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LINKAGES USED AND QUANTITIES TRANSPORTED

FROM	TO	QTY. TRANSPORTED
Golan	NC-Golan	11.09
Kinneret	NC-SeaOfGal	526.03
WestGalil	NC-WestGalil	39.42
Haifa	NC-Haifa	24.20
Netanya	NC-Hadera	136.16
Ramla	NC-Ramla	70.63
Rehovot	NC-Rehovot	138.73
Lachish	NC-Lachish	36.20
NHighlands	JordanV	35.92
NHighlands	Azraq	15.07
DeadSea	Amman	158.96
Azraq	Amman	59.23
Bethlehem	NC-Bethlehem	1.34
GazaN	NC-GazaN	61.60
Jericho	NC-SeaOfGal	41.85
NC-Hacola	Hacola	16.65
NC-Golan	NC-Hacola	16.65
NC-SeaOfGal	JordanV	227.95
NC-SeaOfGal	NC-Golan	5.56
NC-SeaOfGal	NC-WestGalil	334.37
NC-WestGalil	NC-Haifa	373.79
NC-Haifa	NC-Afula	397.99
NC-Afula	Afula	70.06
NC-Afula	NC-Netanya	327.93
NC-Hadera	NC-Tulkarem	281.56
NC-Netanya	Hadera	101.27
NC-Netanya	NC-Jenin	226.66
NC-PTiqwa	PTiqwa	70.02
NC-PTiqwa	NC-TelAviv	101.93
NC-TelAviv	TelAviv	197.51
NC-Ramla	NC-TelAviv	95.58
NC-Rehovot	NC-Jerusalem	58.59
NC-Rehovot	NC-Ramallah	80.14
NC-Jerusalem	Jerusalem	58.59
NC-Lachish	NC-Hebron	37.55
NC-Negev	Negev	61.60

W10

NC-Jenin	Jenin	81.26
NC-Jenin	NC-Hadera	145.40
NC-Tulkarem	Tulkarem	58.60
NC-Tulkarem	NC-Nablus	222.96
NC-Nablus	Nablus	51.01
NC-Nablus	NC-PTiqwa	171.95
NC-Ramallah	Ramallah	55.18
NC-Ramallah	NC-Ramla	24.95
NC-Bethlehem	NC-Lachish	1.34
NC-Hebron	Hebron	37.55
NC-GazaN	NC-Negev	61.60

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SUBAMT("I10", "AGR") = 0 ;
SUBRATE("I11", "AGR") = 30 ;
SUBAMT("I11", "AGR") = 0 ;
SUBRATE("I12", "AGR") = 30 ;
SUBAMT("I12", "AGR") = 0 ;
SUBRATE("I14", "AGR") = 30 ;
SUBAMT("I14", "AGR") = 0 ;
SUBRATE("I15", "AGR") = 30 ;
SUBAMT("I15", "AGR") = 0 ;

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OPTIMAL GAMS RESULTS FOR WAS.GMS
TRANSPORT OF RECYCLED WATER

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LINKAGES USED AND QUANTITIES TRANSPORTED

FROM	TO	QTY. TRANSPORTED
TelAviv	Lachish	111.22
Amman	JordanV	96.87
Nablus	Jericho	13.76
Ramallah	Jericho	36.19
Bethlehem	Jericho	14.96
Hebron	Jericho	9.82
GazaN	Negev	65.88
GazaS	Negev	52.10

W12

Water Allocation System (WAS v1.0)
 Developed by: The Harvard Middle East Water Project

FIXED INDUSTRIAL DEMAND AT JORDAN
 Year: 2020 - Middle Palestinian Growth Scenario
 Scenario PLAUSIBLE+: Plausible+ Links and Recycling
 Quota File: qta.inc 6 files Jordan Valley AGR

SUBRATE("I1", "AGR") = 30 ;
 SUBAMT("I1", "AGR") = 0 ;
 SUBRATE("I3", "AGR") = 30 ;
 SUBAMT("I3", "AGR") = 0 ;
 SUBRATE("I4", "AGR") = 30 ;
 SUBAMT("I4", "AGR") = 0 ;
 SUBRATE("I5", "AGR") = 30 ;
 SUBAMT("I5", "AGR") = 0 ;
 SUBRATE("I6", "AGR") = 30 ;
 SUBAMT("I6", "AGR") = 0 ;
 SUBRATE("I7", "AGR") = 30 ;
 SUBAMT("I7", "AGR") = 0 ;
 SUBRATE("I8", "AGR") = 30 ;
 SUBAMT("I8", "AGR") = 0 ;
 SUBRATE("I9", "AGR") = 30 ;
 SUBAMT("I9", "AGR") = 0 ;
 SUBRATE("I10", "AGR") = 30 ;
 SUBAMT("I10", "AGR") = 0 ;
 SUBRATE("I11", "AGR") = 30 ;
 SUBAMT("I11", "AGR") = 0 ;
 SUBRATE("I12", "AGR") = 30 ;
 SUBAMT("I12", "AGR") = 0 ;
 SUBRATE("I14", "AGR") = 30 ;
 SUBAMT("I14", "AGR") = 0 ;
 SUBRATE("I15", "AGR") = 30 ;
 SUBAMT("I15", "AGR") = 0 ;

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OPTIMAL GAMS RESULTS FOR WAS.GMS
 DISPUTED QUANTITIES: MOUNTAIN AQUIFER

DISTRICT	SOURCE	QTY. PUMPED	MAX. QTY
Afula	S1	32.00	32.00
Afula	S2	8.00	8.00
Afula	S3	0.00	40.00
Hadera	S1	7.00	7.00
Hadera	S2	0.00	11.00
Netanya	S2	132.00	132.00
Netanya	S3	0.00	37.00
Ramla	S1	124.89	150.00
Lachish	S3	0.00	57.00
Negev	S3	12.85	25.00
Jenin	S4	51.16	98.33
Tulkarem	S3	6.68	6.68
Tulkarem	S4	6.36	134.95
Nablus	S4	20.56	20.56
Ramallah	S4	0.00	128.57
Bethlehem	S3	28.79	28.79
Hebron	S2	9.62	9.62
Hebron	S3	46.68	46.68